Lab-sheet for SE:

**11 March** – In teams of two - setup private Git server and demonstrate a project versioned by usin this server– ensure that the report includes:

1. Team members names and screenshots for the below mentioned tasks
2. Create a project repository
3. Add files – including requirements + test cases for your project
4. Add build steps (e.g. Makefile for C/C++)
5. Fork to a different branch
6. Merge back from the different branch
7. Either on the dedicated server or on bitbucket/github demo issues and commits related to issues.

**18 March** – in teams of 4 – Unique Cloud setup and execution tools– cloud based software and tools

Ref:

[https://www.infoworld.com/article/3336072/infoworlds-2019-technology-of-the-year-award-winners.html](https://www.infoworld.com/article/3336072/infoworlds-2019-technology-of-the-year-award-winners.html?nsdr=true&page=2)

<https://blog.gruntwork.io/why-we-use-terraform-and-not-chef-puppet-ansible-saltstack-or-cloudformation-7989dad2865c>

Using the above references choose a unique platform and deploy its open source version in lab environment OR using the free online cloud hosting servers experiment with deploying an application.

Beyond the above list you can try other platforms and related tools like Diego, Garden/Warden/Puppet etc., ensure that build automation tools like maven / Jenkins / hudson

1. Mention the primary reference being used – e.g. web based tutorial.
2. Capture the screenshots for the setup.
3. Solve a problem using the tool+setup
   1. Demonstrate the “hello-world” level functionality or repeat the tutorial related work.
   2. Change the logic (or training data) to demonstrate additional functionality.
   3. Include unit tests if possible and also capture their execution as screenshots / screen recording.